

PLEASE PRINT OR TYPE ALL ANSWERS. If a question does not apply to your project, please print N/A (not applicable) in the space provided. *If additional space is needed, attach extra 8 ½ x 11 inch sheets of paper.*

If using JPA as Pre-Construction Notification (PCN), check here: _____
 If using JPA as a DEQ Registration Statement, check here: _____

1. PROJECT LOCATION INFORMATION (Attach a copy of a map, such as a USGS topographic map or ADC map showing the site location. Include an arrow indicating the North Direction.)

Address	City/County
Subdivision	Lot/Block/Parcel #
Name of waterbody(ies) within project boundaries	Tributary(ies) to
Project type (check one) _____ Single user (private, non-commercial, residential) _____ Multi-user (community, commercial, industrial, government)	
Latitude and longitude at center of project site: _____ - _____ - _____ / _____ - _____ - _____	
<i>For projects impacting nontidal wetlands/waters only:</i> 8- digit USGS Hydrologic Unit Code (HUC) for your project site (See www.epa.gov/surf/): _____	
Name of your project (Example: Piddly Creek driveway crossing) _____	
Is there an access road to the project? __ yes __ no. If yes, check all that apply: __ public __ private __ improved __ unimproved	
How can your site be identified if there is no visible address?	
Provide driving directions to your site, giving distances from the best and nearest visible landmarks or major intersections:	
Does your project site cross boundaries of two or more localities (i.e. cities/counties/towns)? __ yes __ no If so, name those localities:	

FOR AGENCY USE ONLY

	Notes:
JPA#	

2. APPLICANT(S), AGENT, PROPERTY OWNER(S), AND CONTRACTOR INFORMATION

The applicant(s) can either be the property owner(s) or the person/people/company(ies) that intend(s) to undertake the activity.
The agent is the person or company that is representing the applicant(s).

Applicant(s)			Agent (if applicable)		
Mailing address			Mailing address		
City	State	Zip Code	City	State	Zip Code
Phone number w/area code	Fax		Phone number w/area code	Fax	
Mobile/pager	E-mail		Mobile/pager	E-mail	
Property owner(s) (if different from applicant)			Contractor (if known)		
Mailing address			Mailing address		
City	State	Zip code	City	State	Zip code
Phone number w/area code	Fax		Phone number w/area code	Fax	
Mobile/pager	E-mail		Mobile/pager	E-mail	

3. DESCRIPTION OF PROJECT, PROJECT PRIMARY AND SECONDARY PURPOSES, INTENDED USE, AND ALTERNATIVES CONSIDERED (Attach additional sheets if necessary)

- The purpose must include any new development or expansion of an existing land use and/or proposed future use of residual land
- Describe the physical alteration of surface waters
- Include a description of alternatives considered to avoid or minimize impacts to surface waters, including wetlands, to the maximum extent practicable. Include factors such as, but not limited to, alternative construction technologies, alternative project layout and design, alternative locations, local land use regulations, and existing infrastructure
- For utility crossings, include both alternative routes and alternative construction methodologies considered

3. DESCRIPTION OF PROJECT (continued)

3. DESCRIPTION OF PROJECT (Continued)

Date of proposed commencement of work (M/D/Y) _____	Date of proposed completion of work (M/D/Y) _____
Are you submitting this application at the direction of any State, local, or Federal agency? ____yes ____no	Has any work commenced or has any portion of the project for which you are seeking a permit been completed? ____ yes ____ no
If you answered "yes" to either question above, give details stating when the work was completed and/or when it commenced, who performed the work, and which agency (if any) directed you to submit this application. In addition, you will need to clearly differentiate between completed work and proposed work on your project drawings.	
Are you aware of any unresolved violations of environmental law or litigation involving the property? ____yes ____no (If yes, please explain)	

4. LIST ALL PREVIOUS SITE VISITS AND/OR PERMITS RELATED TO THE PROPOSED WORK (Include all Federal, State, and Local pre-application coordination or previous permits)

Agency	Activity	Permit/Project number	Action taken **	If denied, give reason for denial

** Issued, denied, site visit

5. PROJECT COSTS

Approximate cost of the entire project, including materials and labor: \$ _____

Approximate cost of only the portion of the project affecting State waters (below mean low water in tidal areas and below ordinary water level in nontidal areas): \$ _____

6. PUBLIC NOTIFICATION (Attach additional sheets if necessary)

- Complete information for all property owners adjacent to the project site and across the waterway, if the waterway is less than 500 feet in width. If your project is located within a cove, you will need to provide names and mailing addresses for all property owners within the cove.
- If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line.

Property owner's name	Mailing address	City	State	Zip code

Name of newspaper having general circulation in the area of the project:				
--	--	--	--	--

Address of newspaper _____

Phone number of newspaper (including area code) _____

Have adjacent property owners been notified with forms in Appendix B? yes no (attach copies of distributed forms)

7. THREATENED AND ENDANGERED SPECIES INFORMATION:

If not already attached to this JPA as part of your Corps' waters and wetlands delineation confirmation, please provide any information concerning the potential for your project to impact state and/or federally threatened and endangered species (listed or proposed). Attach correspondence from agencies and/or reference materials that address potential impacts. Contact information for the Virginia Department of Game and Inland Fisheries and the Virginia Department of Conservation and Recreation, Division of Natural Heritage can be found on page 5 of this package.

8. WETLANDS/WATERS IMPACT INFORMATION

Report each impact on a separate line, even if more than one impact occurs at the same Impact Site Number. If needed, attach additional sheets using an exact or similar format as the table below.

Impact site number (1, 2, etc.)	Wetland/water impact description*	Wetland impact area (acres)	Cowardin classification of impacted wetland/water (PEM, PSS, PFO, etc.)	Stream/Waters dimensions at impact site (length and width in feet)
Example: 1	F, NT, PE, V	1	PFO	N/A
Example: 1	F, NT, TE, PR, V	N/A	N/A	200 x 30
Example: 2	EX, T, PE, SB, NV	N/A	N/A	250 x 100
		4.8	PEM (total)	
		6.6	PSS (total)	
		20.7	PFO (total)	
SEE TAB E FOR	MORE INFORMATION			

* use all that apply: F=fill, EX=excavation, T=tidal, NT=non-tidal, TE=temporary, PE=permanent, PR=perennial, IN=intermittent, SB=subaqueous bottom, IS=hydrologically isolated, V=vegetated, NV=non-vegetated, MC=Mechanized Clearing of FPO

DEQ Classification of impacted resource(s) (mark the boxes next to those that apply):

<input checked="" type="checkbox"/> Non-tidal waters Class III	<input type="checkbox"/> Mountainous zone waters Class IV	<input type="checkbox"/> Stockable trout waters Class V	<input type="checkbox"/> Natural trout waters Class VI	<input type="checkbox"/> Wetlands Class VII	<input type="checkbox"/> Estuarine Class II
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9. APPLICANT, AGENT, AND CONTRACTOR CERTIFICATIONS

READ ALL OF THE FOLLOWING CAREFULLY BEFORE SIGNING

PRIVACY ACT STATEMENT: The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

I hereby apply for all necessary permits for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions.

In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant's name (printed or typed) CUMBERLAND COUNTY	Second applicant's name (printed or typed)
Applicant's signature <i>Samuel D. Swinton</i>	Second applicant's signature
Date 4.12.05	Date

9. CERTIFICATIONS (continued)

CERTIFICATION OF AUTHORIZATION TO ALLOW AGENTS TO ACT ON APPLICANTS' BEHALF (IF APPLICABLE)

I, SHERYL D. SWINSON, hereby certify that I have authorized JOHN W. DANIEL II
 (APPLICANT'S NAME) (AGENT'S NAME)
 to act on my behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. We hereby certify that the information submitted in this application is true and accurate to the best of our knowledge.

Applicant's signature <u>Sheryl D. Swinson</u>	Second applicant's signature	Agent's signature <u>John W. Daniel II</u>
Date <u>4.12.05</u>	Date	Date

CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)

I, _____, have contracted _____
 (APPLICANT'S NAME) (CONTRACTOR'S NAME)
 to perform the work described in this Joint Permit Application, signed and dated _____.

We will read and abide by all conditions as set forth in all Federal, State, and Local permits as required for this project. We understand that failure to follow the conditions of the permits may constitute a violation of applicable Federal, State, and Local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes.

In addition, we agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If we fail to provide the applicable permit upon request, we understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.

Contractor's name or name of firm (printed/typed)		Contractor's or firm's mailing address	
Contractor's license number	Contractor's signature and title	Date	
Applicant's signature		Second applicant's signature	
Date		Date	



END OF GENERAL INFORMATION

The following sections are activity-specific. Fill out only the sections that apply to your particular project.

10. PRIVATE PIERS, MARGINAL WHARVES, AND UNCOVERED BOAT LIFTS

If you plan to construct a private, residential pier, you **may** qualify to work in a non-reporting capacity under the Norfolk District Corps of Engineers' Regional Permit 17 (RP-17).

A copy of RP-17 can be obtained by calling (757) 201-7652 or by visiting the Corps' Website at <http://www.nao.usace.army.mil/Regulatory/RBregional.htm>. A copy of the RP-17 Certificate of Compliance is found in Appendix C of this application package. You should only sign and return this form to the Corps if you have completely read and understood the terms and conditions of RP-17. **You will need to contact the Virginia Marine Resources Commission at (757) 247-2200 and your local wetlands board for further information concerning their permit requirements before proceeding with any work.**

In cases where the proposed pier will encroach beyond one fourth the waterway width (as determined by measuring mean high water to mean high water or ordinary high water to ordinary high water), the following information must be included before the application will be considered complete:

1. Depth soundings across the waterway at 10-foot increments for waterways up to 200 feet wide or at 20-foot increments for waterways greater than 200 feet wide
2. Other justification to exceed the one-fourth width (on separate sheets of paper)

Number of vessels to be moored at the pier or wharf: _____

In the spaces provided below, give the type (i.e. sail, power, skiff, etc.), size, and registration number of the vessel(s) to be moored

TYPE	LENGTH	WIDTH	DRAFT	REGISTRATION #

11. BOATHOUSES, GAZEBOS, COVERED BOAT LIFTS, AND OTHER ROOFED STRUCTURES OVER WATERWAYS

No. of vessels to be moored at the proposed structure: _____ Will the sides of the structure be enclosed? ____yes ____no

In the spaces provided below, give the type (i.e. sail, power, skiff, etc.), size, and registration number of the vessel(s) to be moored

TYPE	LENGTH	WIDTH	DRAFT	REGISTRATION #

12. MARINAS, COMMERCIAL, GOVERNMENTAL, AND COMMUNITY PIERS

Have you obtained the Virginia Department of Health's approval for sanitary facilities? ____yes ____no
You will need to obtain this authorization or a variance before a VMRC permit will be issued.

Will petroleum products or other hazardous materials be stored or handled at the facility? ____yes ____no
If your answer is yes, please attach your spill contingency plan.

Will the facility be equipped to off-load sewage from boats? ____yes ____no

EXISTING: wet slips: _____ dry storage: _____

PROPOSED: wet slips: _____ dry storage: _____

**13. FREE STANDING MOORING PILES, OSPREY NESTING POLES, MOORING BUOYS, AND DOLPHINS
(not associated with piers)**

Number of vessels to be moored: _____

Type and number of mooring(s) proposed: _____

In the spaces provided below, give the type (i.e. sail, power, skiff, etc.), size, and registration number of the vessel(s) to be moored

TYPE	LENGTH	WIDTH	DRAFT	REGISTRATION #

Give the name and complete mailing address(es) of the owner(s) of the vessel(s) if not owned by applicant (attach extra sheets if needed):

Do you plan to reach the mooring from your own upland property? ____yes ____no

If "no," explain how you intend to access the mooring.

14. BOAT RAMPS

Will excavation be required to construct the boat ramp? ____yes ____no

If "yes," will any of the excavation occur below the plane of the ordinary high water line/mean high water line or in wetlands?

____yes ____no

If "yes," you will need to fill out Section 17 for this excavation. Where will you dispose of the excavated material?

What type of design and materials will be used to construct the ramp (open pile design with salt treated lumber, concrete slab on gravel bedding, etc.)?

Location of nearest public boat ramp

Driving distance to that public ramp

_____ miles

Will other structures be constructed concurrent with the boat ramp installation? ____yes ____no

If "yes," please fill out the appropriate sections of this application associated with those other activities.

15. TIDAL/NONTIDAL SHORELINE STABILIZATION STRUCTURES (INCLUDING BULKHEADS AND ASSOCIATED BACKFILL, RIPRAP REVETMENTS AND ASSOCIATED BACKFILL, MARSH TOE STABILIZATION, GROINS, JETTIES, AND BREAKWATERS)

Is any portion of the project maintenance or replacement of an existing and currently serviceable structure? ____yes ____no

If yes, give length of existing structure: _____ linear feet

If your maintenance project entails replacement of a bulkhead, is it possible to construct the replacement bulkhead within 2 feet channelward of the existing bulkhead? ____yes ____no If not, please explain below:

15. TIDAL/NONTIDAL SHORELINE STABILIZATION STRUCTURES (continued)

Length of proposed structure, including returns: _____ linear feet

Average channelward encroachment of the structure from
Mean high water/ordinary high water: _____ feet
Mean low water: _____ feet*Maximum* channelward encroachment of the structure from
Mean high water/ordinary high water: _____ feet
Mean low water: _____ feet

Describe the type of construction including all materials to be used (including all fittings):

Will filter cloth be used? ____yes ____no

What is the source of the backfill material? _____

What is the composition of the backfill material? _____

If rock is to be used, give the average volume of material to be used for every linear foot of construction: _____ cubic yards

What is the volume of material to be placed below the plane of ordinary high water/mean high water? _____ cubic yards

For projects involving stone:

Average weight of core material (bottom layers): _____ pounds per stone (Class _____)

Average weight of armor material (top layers): _____ pounds per stone (Class _____)

Are there similar shoreline stabilization structures in the vicinity of your project site? ____yes ____no

If so, describe the type(s) and location(s) of the structure(s):

If you are building a groin or jetty, will the channelward end of
the structure be marked to show a hazard to navigation?
____yes ____noHas your project been reviewed by the Shoreline Erosion
Advisory Service (SEAS)? ____yes ____no
If yes, please attach a copy of their comments.**16. BEACH NOURISHMENT**

Source of material: _____

Volume of material: _____ cubic yards

Composition of material (percentage sand, silt, clay):

Mode of transportation of material to the project site (truck,
pipeline, etc.):Describe the type(s) of vegetation proposed for stabilization and the proposed planting plan, including schedule, spacing,
monitoring, etc. Attach additional sheets if necessary.

17. DREDGING, MINING, AND EXCAVATING - INFILTRATION BED INTAKE SYSTEM

FILL OUT THE FOLLOWING TABLE FOR DREDGING PROJECTS

	NEW dredging excavation				MAINTENANCE dredging			
	Hydraulic		Mechanical (clamshell, dragline, etc.)		Hydraulic		Mechanical (clamshell, dragline, etc.)	
	Cubic yards	Square feet	Cubic yards	Square feet	Cubic yards	Square feet	Cubic yards	Square feet
Vegetated wetlands								
Nonvegetated wetlands								
Subaqueous land								
Totals								

If maintenance, number of maintenance cycles anticipated: _____

Composition of material (percentage sand, silt, clay, rock):

Provide documentation that the dredged material is free of toxics, or documentation of proper disposal if toxic (i.e. bill of lading from commercial supplier or disposal site). *For DEQ permits, provide a Dredge Management Plan as per 9VAC25-680, 690-et seq.*

How will the dredged material be retained to prevent its re-entry into the waterway?

Will the dredged material be used for any commercial purpose or beneficial use? ____yes ____no

If yes, please explain:

If this is a maintenance dredging project, what was the date that the dredging was last performed? _____

Permit number of original permit: _____ (*It is important that you attach a copy of the original permit.*)

For mining projects: On separate sheets of paper, explain the operation plans, including: 1) the frequency (i.e., every six weeks, for example), duration (i.e., April through September), and volume (in cubic yards) to be removed per operation; 2) the temporary storage and handling methods of mined material, including the dimensions of the containment berm used for upland disposal of dredged material and the need (or no need) for a liner or impermeable material to prevent the leaching of any identified contaminants into ground water; 3) how equipment will access the mine site; and 4) verification that dredging: a) will not occur in waterbody segments that are currently on the effective Section 303(d) Total Maximum Daily Load (TMDL) priority list or that have an approved TMDL; b) will not exacerbate any impairment; and c) will be consistent with any waste load allocation/limit/conditions imposed by an approved TMDL.

Have you applied for a permit from the Virginia Department of Mines, Minerals and Energy? ____yes ____no

Contributing drainage area: _____square miles

Average stream flow at site: _____cfs

18a. FILL IN WETLANDS/WATERS - INFILTRATION BED INTAKE SYSTEM

Source of material: _____	Volume of fill below MHW: _____ cubic yards OHW: _____ cubic yards
Area of fill in vegetated wetlands: _____ square feet (tidal) _____ square feet (nontidal)	
Source and composition of material (percentage sand, silt, clay, rock): Provide documentation that the fill material is free of toxics, or documentation of proper disposal if toxic (i.e. bill of lading from commercial supplier or disposal site).	
Explain the purpose of the filling activity and the type of structure to be constructed over the filled area (if any): 	
If the filling activity is occurring in vegetated wetlands, name the receiving waterbody (or the nearest waterbody if work is occurring in a hydrologically isolated wetland): _____ What is the distance of the given waterbody from the proposed activity? _____	
Contributing drainage area: _____ square miles	Average stream flow at site: _____ cfs

19a. INTAKE, OUTFALL, AND WATER CONTROL STRUCTURES (INCLUDING ALL PROPOSED WATER WITHDRAWAL ACTIVITIES) - INFILTRATION BED INTAKE SYSTEM

INTAKE(S)		OUTFALL(S)	
Type and size of pipe(s):		Type and size of pipe(s):	
Daily rate of withdrawal: _____ mgd Velocity of withdrawal: _____ fps (maximum through screen)		Daily rate of discharge: _____ mgd	
Screen mesh size: _____ inches _____ mm _____ other (please specify)			
If the discharge will be thermally-enhanced, provide the maximum temperature: _____			
Contributing drainage area: _____ square miles		Average stream flow at site: _____ cfs	
On the table below, provide the median (not mean) monthly stream flows in cubic feet per second (cfs) at the water intake or dam site (not at the gauge). Median flow is the value at which half of the measurements are above and half of the measurements are below. Median is also sometimes referred to as the '50% exceedence flow'. The median flow generally must be calculated from USGS historical data.			
Month	Median flow (cfs)	Month	Median flow (cfs)
January		July	
February		August	
March		September	
April		October	
May		November	
June		December	

19a. INTAKE, OUTFALL, AND WATER CONTROL STRUCTURES - INFILTRATION BED INTAKE SYSTEM (continued)

Describe the stream flow gauges used, the type of calculations used (such as drainage area coefficient correction factors), and the period of record that was used to calculate the mean flows provided in the figures in the table above. In addition, provide the average annual flow at the withdrawal point and any available historical low-flows.

Provide the maximum instantaneous withdrawal and maximum daily withdrawal at the water intake or dam site. Specify the units of measurement (i.e. million gallons per day, gallons per minute, cubic feet per second, etc.).

Maximum instantaneous withdrawal _____
Average daily withdrawal _____
Maximum daily withdrawal _____
Maximum monthly withdrawal _____
Maximum annual withdrawal _____

Describe how the amount of water to be withdrawn was calculated; the relevant assumptions made in that calculation; and how the proposed withdrawal will impact flows in terms of flow reduction. The purpose of this section is to document the need for the water. Examples of documentation include population projections, growth rates, per-capita use rates, changes in unaccounted-for water attributed to leak detection, and disaggregating and re-aggregating water use by category. Document the source of any increase in population, for example, where Virginia Employment Commission (VEC) population projection figures are used. Document whether existing sources go off line and whether new sources come on line, for example, water sales from adjacent localities. Also, describe the proposed use of the water withdrawal.

Describe the manner in which the withdrawal of water varies over time. For example, as a function of the time of year, or the time of day, or time of week. Examples of projects that should describe variable use in detail include, but are not limited to: power plant cooling water withdrawals that increase and decrease seasonally; golf course irrigation; localities; nurseries; ski resorts that use water for snowmaking; and resorts with weekend or seasonal variations.

Describe below the amount of water that will be lost due to consumptive use. For the purpose of this application, consumptive use means the withdrawal of surface waters without recycling of said waters to their source or basin of origin. Examples of consumptive uses are water that is evaporated in cooling towers or in other means in power plants; irrigation water (all types); residential water use that takes place outside of the home; and residential water use both inside and outside of homes for residences served by septic systems. Localities that sell water to other jurisdictions should document the portion of the withdrawal that is not returned to the originating watershed. Attach a map showing the location of the withdrawal and the location of the return of flow.

On separate sheets of paper, describe:

1. The existing beneficial uses of the surface water body near the proposed project site that would be affected by the withdrawal of water. Include both instream and offstream uses. For the purposes of this application, beneficial instream uses include, but are not limited to: the protection of fish and wildlife habitat; maintenance of water assimilation; recreation; navigation; and cultural and aesthetic values. Offstream beneficial uses include, but are not limited to: domestic (including public) water supply; agricultural; hydropower; and commercial and industrial uses. Describe the stream flow necessary to protect existing beneficial uses and how the proposed withdrawal will impact existing beneficial uses.
2. The aquatic life known to be present in the proposed project area, and that which may be impacted by the proposed water withdrawal. Include the species' habitat requirements.

19a. INTAKE, OUTFALL, AND WATER CONTROL STRUCTURES - INFILTRATION BED INTAKE SYSTEM (continued)

Describe the stream flow gauges used, the type of calculations used (such as drainage area coefficient correction factors), and the period of record that was used to calculate the mean flows provided in the figures in the table above. In addition, provide the average annual flow at the withdrawal point and any available historical low-flows.

Describe how the amount of water to be withdrawn was calculated; the relevant assumptions made in that calculation; and how the proposed withdrawal will impact flows in terms of flow reduction. The purpose of this section is to document the need for the water. Examples of documentation include population projections, growth rates, per-capita use rates, changes in unaccounted-for water attributed to leak detection, and disaggregating and re-aggregating water use by category. Document the source of any increase in population, for example, where Virginia Employment Commission (VEC) population projection figures are used. Document whether existing sources go off line and whether new sources come on line, for example, water sales from adjacent localities. Also, describe the proposed use of the water withdrawal.

18b. FILL IN WETLANDS/WATERS (not associated with backfilled shoreline structures) - COBBS CREEK DAM

Source of material: _____	Volume of fill below MHW: _____ cubic yards OHW: _____ cubic yards
Area of fill in vegetated wetlands: _____ square feet (tidal) _____ acres (nontidal)	
Source and composition of material (percentage sand, silt, clay, rock): Provide documentation that the fill material is free of toxics, or documentation of proper disposal if toxic (i.e. bill of lading from commercial supplier or disposal site).	
Explain the purpose of the filling activity and the type of structure to be constructed over the filled area (if any): 	
If the filling activity is occurring in vegetated wetlands, name the receiving waterbody (or the nearest waterbody if work is occurring in a hydrologically isolated wetland): _____ What is the distance of the given waterbody from the proposed activity? _____	
Contributing drainage area: _____ square miles	Average stream flow at site: _____ cfs

19b. INTAKE, OUTFALL, AND WATER CONTROL STRUCTURES (INCLUDING ALL PROPOSED WATER WITHDRAWAL ACTIVITIES) - COBBS CREEK TRANSFER PIPELINE OUTFALL

INTAKE(S)		OUTFALL(S)	
Type and size of pipe(s):		Type and size of pipe(s):	
Daily rate of withdrawal: _____ mgd Velocity of withdrawal: _____ fps		Daily rate of discharge: _____ mgd (avg)	
Screen mesh size: _____ inches _____ mm _____ other (please specify)			
If the discharge will be thermally-enhanced, provide the maximum temperature: _____			
Contributing drainage area: _____ square miles		Average stream flow at site: _____ cfs	
On the table below, provide the median (not mean) monthly stream flows in cubic feet per second (cfs) at the water intake or dam site (not at the gauge). Median flow is the value at which half of the measurements are above and half of the measurements are below. Median is also sometimes referred to as the '50% exceedence flow'. The median flow generally must be calculated from USGS historical data.			
Month	Median flow (cfs)	Month	Median flow (cfs)
January		July	
February		August	
March		September	
April		October	
May		November	
June		December	

19b. INTAKE, OUTFALL, AND WATER CONTROL STRUCTURES - COBBS CREEK TRANSFER PIPELINE OUTFALL (con't)

Describe the stream flow gauges used, the type of calculations used (such as drainage area coefficient correction factors), and the period of record that was used to calculate the mean flows provided in the figures in the table above. In addition, provide the average annual flow at the withdrawal point and any available historical low-flows.

Provide the maximum instantaneous withdrawal and maximum daily withdrawal at the water intake or dam site. Specify the units of measurement (i.e. million gallons per day, gallons per minute, cubic feet per second, etc.).

Maximum instantaneous withdrawal _____

Average daily withdrawal _____

Maximum daily withdrawal _____

Maximum monthly withdrawal _____

Maximum annual withdrawal _____

Describe how the amount of water to be withdrawn was calculated; the relevant assumptions made in that calculation; and how the proposed withdrawal will impact flows in terms of flow reduction. The purpose of this section is to document the need for the water. Examples of documentation include population projections, growth rates, per-capita use rates, changes in unaccounted-for water attributed to leak detection, and disaggregating and re-aggregating water use by category. Document the source of any increase in population, for example, where Virginia Employment Commission (VEC) population projection figures are used. Document whether existing sources go off line and whether new sources come on line, for example, water sales from adjacent localities. Also, describe the proposed use of the water withdrawal.

Describe the manner in which the withdrawal of water varies over time. For example, as a function of the time of year, or the time of day, or time of week. Examples of projects that should describe variable use in detail include, but are not limited to: power plant cooling water withdrawals that increase and decrease seasonally; golf course irrigation; localities; nurseries; ski resorts that use water for snowmaking; and resorts with weekend or seasonal variations.

Describe below the amount of water that will be lost due to consumptive use. For the purpose of this application, consumptive use means the withdrawal of surface waters without recycling of said waters to their source or basin of origin. Examples of consumptive uses are water that is evaporated in cooling towers or in other means in power plants; irrigation water (all types); residential water use that takes place outside of the home; and residential water use both inside and outside of homes for residences served by septic systems. Localities that sell water to other jurisdictions should document the portion of the withdrawal that is not returned to the originating watershed. Attach a map showing the location of the withdrawal and the location of the return of flow.

On separate sheets of paper, describe:

1. The existing beneficial uses of the surface water body near the proposed project site that would be affected by the withdrawal of water. Include both instream and offstream uses. For the purposes of this application, beneficial instream uses include, but are not limited to: the protection of fish and wildlife habitat; maintenance of water assimilation; recreation; navigation; and cultural and aesthetic values. Offstream beneficial uses include, but are not limited to: domestic (including public) water supply; agricultural; hydropower; and commercial and industrial uses. Describe the stream flow necessary to protect existing beneficial uses and how the proposed withdrawal will impact existing beneficial uses.
2. The aquatic life known to be present in the proposed project area, and that which may be impacted by the proposed water withdrawal. Include the species' habitat requirements.

19b. INTAKE, OUTFALL, AND WATER CONTROL STRUCTURES - COBBS CREEK TRANSFER PIPELINE OUTFALL (con't)

Describe the stream flow gauges used, the type of calculations used (such as drainage area coefficient correction factors), and the period of record that was used to calculate the mean flows provided in the figures in the table above. In addition, provide the average annual flow at the withdrawal point and any available historical low-flows.

20. NONTIDAL STREAM CHANNEL MODIFICATIONS

Contributing drainage area: _____ square miles

Existing average stream flow at site: _____ cfs

Proposed average stream flow at site (after modifications):
_____ cfs

Explain, in detail, the method to be used to stabilize the banks (attach additional sheets if needed):

Explain the composition of the existing stream bed (percent cobble, rock, sand, etc.):

Will low-flow channels be maintained in the modified stream channel? ____yes ____no.
Describe how:

Will any structure(s) be placed in the stream to create riffles, pools, meanders, etc.? ____yes ____no
If yes, please explain:

21. IMPOUNDMENTS, DAMS, AND STORMWATER MANAGEMENT FACILITIES

What type of materials will be used in the construction (earth, concrete, rock, etc.)? _____
What is the source of these materials? _____

Storage capacity* of impoundment: _____ acre-feet
*should be given for the normal pool of recreational/farm ponds or
design pool for stormwater management ponds/reservoirs

Surface area* of impoundment: _____ acres
*should be given for the normal pool of recreational/farm ponds or
design pool for stormwater management ponds/reservoirs

For stormwater management facilities:

Design storm event: _____ year storm

Retention time: _____ hours

Current average flow: _____ cfs

Proposed outflow: _____ cfs

Will the impoundment structure be designed to pass a minimum flow at all times? ____yes ____no
If so, please give the minimum rate of flow: _____ cfs

What is the drainage area upstream of the proposed impoundment? _____ square miles

21. IMPOUNDMENTS, DAMS, AND STORMWATER MANAGEMENT FACILITIES (continued)

21. IMPOUNDMENTS, DAMS, AND STORMWATER MANAGEMENT FACILITIES (continued)

Does your proposed project comply with the Virginia Dam Safety Regulations? ____yes ____no

If your answer is "no," or if you are uncertain, you should contact the Virginia Department of Conservation and Recreation's Dam Safety Program at (804) 371-6095, or reference the regulations on the Web at <http://www.dcr.virginia.gov/sw/damsafty.htm>

How much of your proposed impoundment structure will be located on the stream bed? _____square feet

What is the area of vegetated wetlands that will be backflooded by the impoundment? _____acres

What is the area and length of streambed that will be backflooded by the impoundment? _____linear feet

Are fish ladders being proposed to accommodate the passage of fish? ____yes ____no

If you are proposing a stormwater management facility, has the facility been designed as an Enhanced Extended Detention Basin or an Extended Detention Basin in accordance with the Minimum Standard 3.07 of the Virginia Stormwater Management Handbook, Volume I (published by the Virginia Department of Conservation and Recreation, 1999)? ____yes ____no

22. UTILITY CROSSINGS

Type of crossing: ____overhead ____trenched ____directionally-drilled

Method of clearing corridor of vegetation: ____ mechanized landclearing ____ cutting vegetation above the soil surface

Describe the materials to be used in the installation of the utility line (including gravel bedding for trenched installations, bentonite slurries used during direction-drilling, etc.) and a sequence of events to detail how the installation will be accomplished (including methods used for in-stream and dry crossings).

For overhead crossings over navigable waterways (including all tidal waterways), please indicate the height of other overhead crossings or bridges over the waterway relative to mean high water, mean low water, or ordinary high water:

Nominal system voltage, if project involves power lines: _____

Will there be an excess of excavated material? ____yes ____no

If so, describe the method that will be undertaken to dispose of, and transport, the material to its permanent disposal location and give that location:

Will any excess material be stockpiled in wetlands? ____yes ____no

If so, will the stockpiled material be placed on filter fabric or some other type of impervious surface? ____yes ____no

Drainage area above site: _____square miles

Average stream flow at site: _____cfs

22. UTILITY CROSSINGS (continued)

Describe the materials to be used in the installation of the utility line (including gravel bedding for trenched installations, bentonite slurries used during direction-drilling, etc.) and a sequence of events to detail how the installation will be accomplished (including methods used for in-stream and dry crossings).

23. ROAD CROSSINGS

On separate sheets of paper, describe the materials to be used, the method of construction (including the use of cofferdams), and the sequence of construction events.

Drainage area above site: _____ square miles

Average stream flow at site: _____ cfs

Have you conducted hydraulic studies to verify the adequacy of the culverts? ____yes ____no

If so, please attach a copy of the hydraulic study/report.

Virginia Department of Transportation (VDOT) standards require that the backwater for a 100 year storm not exceed 1 foot for all road, culvert, and bridge projects within FEMA-designated floodplains.

Will the culverts be countersunk six inches below the pre-construction stream invert elevation? ____yes ____no

If the project entails a bridged crossing and there are similar crossings in the area, what is the vertical distance above mean high water, mean low water, or ordinary high water of those similar structures? _____ feet above _____

For all bridges proposed over navigable waterways (including all tidal waterbodies), you will be required to contact the U.S. Coast Guard to determine if a permit is required of their agency.

24. PRIVATE AND COMMERCIAL AQUACULTURE ACTIVITIES

Briefly describe your proposed aquaculture activity from the time of acquisition (seed, fingerlings, etc.) to time of harvest, and indicate which species you intend to culture. Attach additional sheets if needed.

Source of the animals/plants that you want to culture: _____

Note: VMRC Regulation 4VAC 20-754 et seq. "Pertaining to the Importation of Fish, Shellfish or Crustacea" sets forth the requirements for importing organisms from out of state.

Describe below the number, type, and dimensions of the structures that will be used (e.g., 4' x 2' x 18" floats, 3' x 3' x 1' bottom cages, etc.) and the overall dimensions of the area to be occupied by the aquaculture structures (e.g., two 40-foot by 10-foot bottom plots).

Will the structures be affixed to an existing structure? ____yes ____no

If so, describe the attachment below.

Will the structures be located on leased oyster planting ground? ____yes ____no

If so, give the following information: _____ lease number _____ plat file number

Will permanent access roads be placed through wetlands/streams? ____yes ____no

If yes, will the roads be _____ at grade or _____ above grade (check one)?

Will the utility line through wetlands/waters be continually maintained (e.g. via mowing or herbicide)? ____yes ____no

If maintained, what is the maximum width? _____ feet

COUNTY of
CUMBERLAND
VIRGINIA

FOUNDED • 1749

P.O. Box 110
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(804) 492-3625 Phone
(804) 492-9224 Fax

County Administrator
Judy O. Hollifield

Assistant Administrator
Sherry Swinson

County Attorney
Darvin E. Satterwhite

Board of Supervisors

William F. "Bill" Osl, Jr.
District 1

Clifton C. "Cliff" White
District 2

Van H. Petty
District 3

Elbert R. Womack
District 4

Jeremiah D. Heaton
District 5

RESOLUTION

WHEREAS, Cumberland County is keenly aware of its responsibility to its citizens to provide a reliable long-term supply of drinking water; and

WHEREAS, Cumberland County is committed to protecting its natural resources; and

WHEREAS, regional water supply planning is an important statewide issue and Cumberland County has partnered with the Counties of Henrico and Powhatan in determining the feasibility of designing and constructing a regional water supply reservoir; and

WHEREAS, construction of the "Cobbs Creek Project" in Cumberland County requires permit approvals by the Virginia Department of Environmental Quality and the U.S. Army Corps of Engineers; and

NOW, THEREFORE, BE IT RESOLVED, that the Cumberland County Board of Supervisors supports the permit application for the construction of the Cobbs Creek Project to the Virginia Department of Environmental Quality and the U.S. Army Corps of Engineers.

Approved by the Cumberland County Board of Supervisors at its regular monthly meeting held on April 11, 2005.

W. F. Osl, Jr.
William F. Osl, Jr., Chair
Cumberland County Board of Supervisors

Attest:

Sheryl D. Swinson
Sheryl D. Swinson
Assistant County Administrator



COUNTY OF HENRICO, VIRGINIA
BOARD OF SUPERVISORS
MINUTE

Agenda Item No. 110-05
Page No. 1

Agenda Title: RESOLUTION — Support for the Cumberland County Regional Reservoir Permit Application

For Clerk's Use Only: Date: APR 12 2005 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> Amended <input type="checkbox"/> Deferred to:	BOARD OF SUPERVISORS ACTION		YES	NO	OTHER
	Moved by (1) <u>Glover</u> (2) _____	Seconded by (1) <u>O'Bannon</u> (2) _____	Donati, J. <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
REMARKS: <u>APPROVED</u>			Glover, R. <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Kaechele, D. <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			O'Bannon, P. <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Thornton, F. <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

WHEREAS, Henrico County is a large county with a growing population and future needs for additional water sources; and,

WHEREAS, a dependable water supply is vital to the continued economic vitality of Henrico County and the quality of life of its residents; and,

WHEREAS, Henrico County has also contracted to provide water to Goochland County and Hanover County; and,

WHEREAS, Henrico County is a financial partner with Cumberland County in determining the feasibility of designing and constructing a regional drinking water supply reservoir ("Cobbs Creek Project") to assure adequate supplies for water customers of the three localities; and,

WHEREAS, construction of the Cobbs Creek Project requires permit approvals by the Virginia Department of Environmental Quality and the U.S. Army Corps of Engineers.

NOW, THEREFORE, BE IT RESOLVED that the Henrico County Board of Supervisors supports the permit application of Cumberland County to the Virginia Department of Environmental Quality and the U.S. Army Corps of Engineers for construction of the Cobbs Creek Project.

Comment: The Director of Public Utilities recommends approval, and the County Manager concurs.

By Agency Head Arthur O. Petring By County Manager David L. Haydel
Routing: Public Utilities
Yellow to: _____
Copy to: _____
Certified: Barry A. Lawrence
A Copy Teste: _____
Clerk, Board of Supervisors
Date: 4/13/05

COUNTY OF POWHATAN

BOARD OF SUPERVISORS:
ROBERT R. COSBY, CHAIRMAN
C. SCOTT DANIEL, VICE CHAIRMAN
T.J. BISE
RUSSELL E. HOLLAND
R. KENNETH HATCHER



COUNTY ADMINISTRATOR
CAROLYN CIOS

RESOLUTION

WHEREAS, Powhatan County has a growing population and future needs for additional water sources; and

WHEREAS, a dependable water supply is vital to the economic vitality of Powhatan County and the quality of life of its residents; and

WHEREAS, Powhatan County is a partner with Cumberland County and Henrico County in determining the feasibility of designing and constructing a regional drinking water supply reservoir ("Cobbs Creek Project") to assure adequate supplies for water customers of the three localities; and

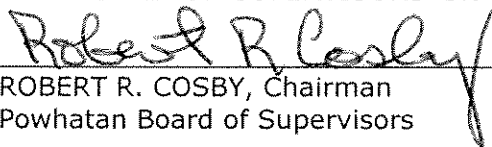
WHEREAS, construction of the Cobbs Creek Project requires permit approvals by the Virginia Department of Environmental Quality and the U. S. Army Corps of Engineers; and

WHEREAS, the Henrico County Board of Supervisors has gone on record in support of the permit application; and

WHEREAS, the permit review process is expected to take from eight to twelve months.

NOW, THEREFORE, BE IT RESOLVED, that the Powhatan County Board of Supervisors supports the permit application of Cumberland County to the Virginia Department of Environmental Quality and the U. S. Army Corps of Engineers for construction of the Cobbs Creek Project. The County Administrator is directed to take any steps necessary to indicate this Board's support for the application.

ADOPTED BY THE POWHATAN COUNTY BOARD OF SUPERVISORS ON APRIL 11, 2005.


ROBERT R. COSBY, Chairman
Powhatan Board of Supervisors

Attest:


Carolyn Cios, Clerk
Powhatan County Board of Supervisors

Robert R. Cosby	<u>Yea</u>
T. J. Bise	<u>Yea</u>
Kenneth Hatcher	<u>Yea</u>
Scott Daniel	<u>Yea</u>
Russell Holland	<u>Yea</u>



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 10009, Richmond, Virginia 23240

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www.deq.state.va.us

W. Tayloe Murphy, Jr.
Secretary of Natural Resources

Robert G. Burnley
Director

(804) 698-4000
1-800-592-5482

December 15, 2004

Mr. David E. Evans
McGuireWoods LLP
One James Center
901 East Cary Street
Richmond, Virginia 21219-4030

Mr. John W. Daniel II
Troutman Sanders
1111 E. Main Street
PO Box 1122
Richmond, VA 23218 1122

Dear Dave and John:

I am writing this letter in response to your letter of December 6, 2004, regarding the November meeting we had on the above referenced projects. Your letter requested confirmation of how the proposed Local and Regional Water Supply Planning Regulation, 9 VAC 25-780-10, *et seq.* would apply to the two projects.

The proposed regulation anticipates the implementation of a local planning process that promotes regional water supply solutions and thoughtful analysis of the potential environmental impacts of developing alternative sources of water supply to meet local needs. Based on our November 1, 2004, meeting, we believe that the Authority and Cumberland County have taken reasonable steps to evaluate the potential alternatives for developing a large single regional project in lieu of the two separate projects. We understand that the decision to develop two projects rather than one single project was based primarily on your evaluation of relative wetland losses. We believe that reducing the scale of wetland impacts in this instance is significant and the two-project alternative appears to be consistent with the intent of the draft water supply planning regulation. We recognize that there continues to be some level of regional involvement in these smaller projects and encourage you to continue to foster additional participation as you develop these projects.

Thank you for keeping us informed of your progress and we look forward to working with you further as these projects progress.

Sincerely,

A handwritten signature in cursive script, appearing to read "Bob", written in dark ink.

Robert G. Burnley

c: Scott Kudlas
Ellen Gilinsky